

THE DUDGEON UNIVERSAL HYDRAULIC JACK.

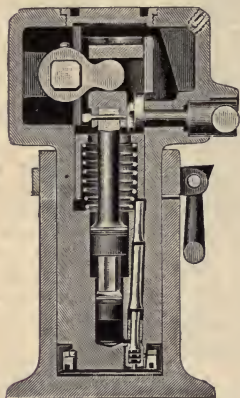


Fig. D. 219.

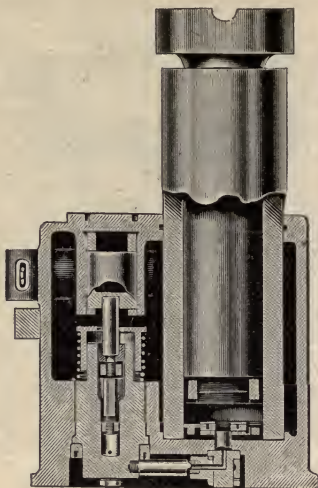


Fig. D. 220.

Showing Construction of Two Typical Forms of the Universal Jack.

The new Universal Jack, which is shown by the two sectional views above, embodies features never before used in hydraulic jacks, which combine to make it the simplest and most efficient jack on the market.

It has double pumps, so that if the load is light, or if the ram must be extended some distance before the strain commences, the two pumps can be used together until the strain becomes excessive, when one pump is thrown out by a turn of the handle. Reversing the operation throws both pumps into service again.

This jack may be lowered either by the lever or by the valve handle, and it can be furnished upon request to lower by either method alone. It requires but one pressure valve for both pumping and lowering. It neither requires an additional pressure valve, or valves, on account of its double pump (which has heretofore been the case), nor does it require an additional pressure valve (which has also heretofore been the case) for lowering.

This jack is lowered by the operator's pressing all the valves from their seats by the lever or valve handle, as he may desire, since all the valves are combined in a single valve chamber in a superimposed position, and all are forced off their seats together. The superimposed valves and pistons are new and desirable features, as any valve or either piston may fail and the jack continue in operation to its maximum capacity.

DUDGEON'S UNIVERSAL HYDRAULIC JACKS.



Fig. D. 221

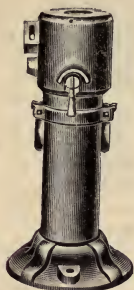


Fig. D. 222.



Fig. D. 223.

Plain jack for use in presses or where there is a firm foundation or support.

Railroad jack for work where stability and portability are required.

Base jack for railroad work or where a broad base insuring stability is required.

Tons Lift.	Run Out Inches.	Plain Jack.			Railroad Jack.			Base Jack.		
		Height Inches.	Weight Pounds.	Price.	Height Inches.	Weight Pounds.	Price.	Height Inches.	Weight Pounds.	Price.
10	12	25	80	\$ 80	25	105	\$ 90	25	109	\$ 95
10	18	32	98	95	31½	146	100	31	125	110
15	12	26	102	100	25	135	115	25	135	125
15	18	32	120	125	31	155	140	32	158	150
20	12	26	127	120	26	167	140	26	168	150
20	18	33	155	145	33	203	165	32	227	175
30	9	22	146	150	21	190	160	22	210	170
30	12	26	194	175	26	206	185	27	271	200
30	18	33	260	210	32	255	220	33	310	235
40	12	27	280	210	27	265	220	27	340	240
40	18	34	320	240	32	310	260	35	392	280
50	12	28	333	240	28	374	250	28	427	260
50	18	33	374	290	33	350	300	36	491	310
60	12	28	350	290	27	320	300	39	508	310

Discount.....

DUDGEON'S UNIVERSAL HYDRAULIC JACKS.



Fig. D. 224.

For general use and for work that will not permit the head to be placed under the load.



Fig. D. 225.

Independent claw jack for work where stability and a low lift are required.

Fixed Claw Jack.

Independent Claw Jack.

Lift.	Run Out.	Height.	Weight.	Price.	Lift	Run Out.	Height.	Diameter of Base.	Weight of Jack with Claws.	Weight of Jack without Claws.	Price.
Tons.	Ins.	Ins.	Lbs.		Tons.	Ins.	Ins.	Ins.	Lbs.	Lbs.	
10	12	25	125	\$100	10	12	26	11	155	105	\$ 95
10	18	32	144	120	10	18	32	11	195	125	110
15	12	26	162	150	15	12	26	11	195	135	135
15	18	32	190	185	15	18	32	11	210	155	160
20	12	26	203	200	20	12	27	12	252	170	175
20	18	33	245	240	20	18	33	12	295	190	200
30	9	22	290	225	30	9	22	12	270	190	190
30	12	26	310	250	30	12	27	12	330	213	220
30	18	32	364	285	30	18	33	13	385	260	260
40	12	27	355	300	40	12	27	13	380	270	260
40	18	34	460	325	40	18	33	13	465	315	300
50	12	27	450	325	50	12	28	15	530	379	300
.....	.....	.....	.....	.....	50	18	33	15	580	480	350
.....	.....	.....	.....	.....	60	12	28	16	625	460	350

Discount

DUDGEON'S UNIVERSAL HYDRAULIC JACKS. CAR INSPECTOR'S JACKS.



Fig. D. 226.
Plain Type.

Lift Tons.	Run Out Inches.	Height Inches.	Size of Round Base, Inches.	Weight Pounds.	Price.
15	5	11	6	48	\$ 80 00
20	5	11	7	58	100 00
25	4	11	7½	76	115 00
30	5	11	8	89	130 00

Discount.....

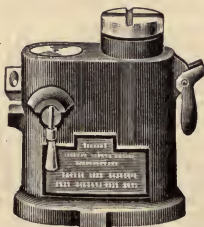


Fig. D. 227.
Low Type.

Lift Tons.	Run Out Inches.	Height Inches.	Size of Elliptical Base, Inches.	Weight Pounds.	Price.
7	5	11	9 x 6	56	\$ 75 00
10	5	11	9½ x 6½	70	90 00
15	5	11	9½ x 6½	90	120 00
20	5	11	10½ x 8	105	135 00
25	5	11	11½ x 8½	115	145 00
30	5	11	11½ x 9	125	155 00

Discount.....

DUDGEON'S UNIVERSAL HYDRAULIC JACKS.

Horizontal Double Pump Jack with Re-enforced Cistern and Removable Claw.

This is the latest improved type of horizontal claw Jack and is intended for lifting both on the ram head in the usual manner and also by means of the claw where a low lift close to the ground is necessary. It is provided with a specially designed cistern which not only gives a support and guide to the claw but also prevents the crushing of the cistern either by the load on the claw or by the strain coming on the front of the cistern by reason of the load. The larger claw Jacks only are made in this form, as this feature is not required for the smaller sizes

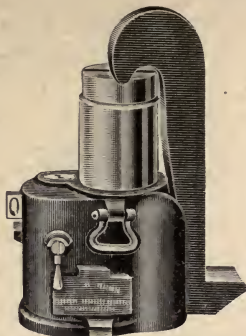


Fig. D. 228.

Lift Tons.	Run Out Inches.		Horizontal Double Pump Jack with Grooved Head and Without Claw.				Horizontal Double Pump Jack With Re-enforced Cistern and Removable Claw.				
			Height, Inches.	Size of Elliptical Base, Inches.	Weight, Pounds.	Price, Each.	Height, Inches.	Size of Elliptical Base, Inches.	Weight without Claw, Pounds.	Weight with Claw, Pounds.	Price, Each.
30	12	21½		13 x10	258	\$200	21	15 x11	290	351	\$240
30	18	27		13 x10	314	235	28	15 x11	350	433	285
40	12	22		14 x11	314	240	22	15½ x11	332	418	290
40	18	28		14 x11	355	280	28	15½ x11	370	480	340
50	12	22		15 x11½	345	260	23	16 x11½	414	534	320
50	18	29		16½ x12½	512	310	28	16 x11½	475	565	380
60	9	19		16½ x12½	450	250	19	18 x12½	485	607	310
60	12	22		16½ x12½	550	275	23	18 x12½	590	718	340
60	18	28		16½ x12½	600	350	30	18 x12½	650	771	420
80	9	20		17½ x14½	550	310	21	19½ x14½	565	684	360
80	12	25		17½ x14½	655	335	24	19½ x14½	665	795	390
80	18	30		17½ x14½	725	385	31	19½ x14½	740	891	455
100	9	21		20½ x16½	720	375	22	22 x16	735	946	400
100	12	24		20½ x16½	876	400	25	22 x16	820	1042	475
100	18	32		20½ x16½	1065	475	32	22 x16	1025	1268	550
125	9	22		21 x17	850	425	...	...	...	...	...
125	12	25		21 x17	900	450	...	...	...	...	...
125	18	32		21 x17	1150	525	...	...	...	...	...
150	12	26		23 x18	1165	500	...	...	...	...	...
150	18	33		23 x18	1325	575	...	...	...	...	...
200	12	27		24 x20	1200	600	...	...	...	...	...
200	18	34		24 x20	1500	700	...	...	...	...	...
250	12	28		27 x24	1700	725	...	...	...	...	...
250	18	35		27 x24	2000	850	...	...	...	...	...

Discount.....

DUDGEON'S UNIVERSAL HYDRAULIC JACKS.

Oval Base Horizontal.

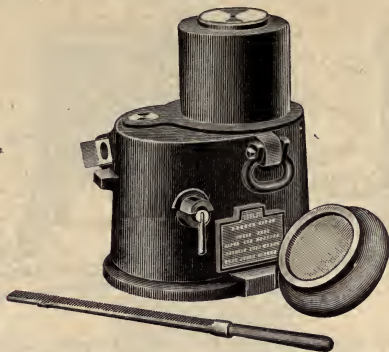


Fig. D. 229.
Removable Cap on Kam.

Lift, Tons.	Run Out, Inches.	Height With Cap, Inches.	Height Without Cap, Inches.	Size of Elliptical Base, Inches.	Weight, Pounds, Without Cap.	Price.
30	12	21 $\frac{1}{2}$	20	13 x10	250	\$200
30	18	27	25 $\frac{1}{2}$	13 x10	306	235
40	12	22	20 $\frac{1}{2}$	14 x11	304	240
40	18	28	26 $\frac{1}{2}$	14 x11	345	280
50	12	22	20 $\frac{1}{2}$	15 x11 $\frac{1}{2}$	335	260
50	18	29	26 $\frac{1}{2}$	16 $\frac{1}{2}$ x12 $\frac{1}{2}$	500	310
60	9	19	17 $\frac{1}{2}$	16 $\frac{1}{2}$ x12 $\frac{1}{2}$	435	250
60	12	22	20 $\frac{1}{2}$	16 $\frac{1}{2}$ x12 $\frac{1}{2}$	535	275
60	18	28	26 $\frac{1}{2}$	16 $\frac{1}{2}$ x12 $\frac{1}{2}$	585	350
80	9	20	18	17 $\frac{1}{2}$ x14 $\frac{1}{2}$	530	310
80	12	25	21	17 $\frac{1}{2}$ x14 $\frac{1}{2}$	635	335
80	18	30	27	17 $\frac{1}{2}$ x14 $\frac{1}{2}$	705	385
100	9	21	19	20 $\frac{1}{2}$ x16 $\frac{1}{2}$	700	375
100	12	24	22	20 $\frac{1}{2}$ x16 $\frac{1}{2}$	856	400
100	18	32	28	20 $\frac{1}{2}$ x16 $\frac{1}{2}$	1035	475
125	9	22	19	21 x17	830	425
125	12	25	22	21 x17	880	450
125	18	32	28	21 x17	1125	525
150	12	26	22	23 x18	1135	500
150	18	33	28	23 x18	1295	575
200	12	27	23	24 x20	1175	600
200	18	34	29	24 x20	1475	700
250	12	28	24	27 x24	1675	725
250	18	35	30	27 x24	1975	850

Discount.....

DUDGEON'S UNIVERSAL HYDRAULIC JACKS.

With Short Independent Cylinder and Ram.

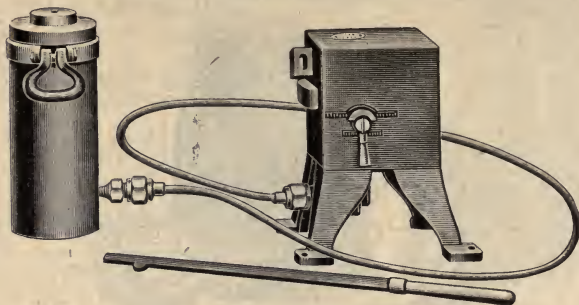


Fig. D. 230.

This type of jack is intended for use in boiler furnaces, under ships, in subway construction, and in other confined places. The cylinder and ram are made as short as possible, and this type is therefore not recommended for lifting a live load because of the short length of ram remaining in the cylinder when it is fully run out. This is the most simple, efficient and reliable independent double pump jack on the market. The pump and cylinder are connected by a flexible copper pipe, 12 feet long, which is included in the price of the jack.

Gauges showing pressure per square inch in pounds, and total pressure on the ram in tons, and provided with a safety check valve, will be furnished, attached for \$25.00, net, extra.

Also made to lift a live load.

Prices on application.

DUDGEON'S UNIVERSAL HYDRAULIC RAILROAD TRAVERSING JACK.

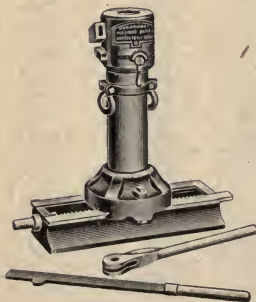


Fig. D. 231.

Traversing jack with railroad type of base.

Lift.	Run Out.	Height of Jack.	Height of Jack and Bed.	Weight.	Price.
Tons.	In.	In.	In.	Lbs.	
10	12	25	30	250	\$145
15	12	25	30	275	175
20	12	26	31	330	215
30	12	26	31	425	270
40	12	26	31	450	310

Discount.....